ELSEVIER

Pharmacology Biochemistry and Behavior, Vol. 58, No. 4, pp. III–XIII, 1997
© 1997 Elsevier Science Inc.
Printed in the USA. All rights reserved
0091-3057/97 $17.00 + .00

CONTENTS
VOLUME 58, 1997

CONTENTS VOLUME 58 NUMBER 1 1997

Articles

Development of tolerance in mice to the sedative effects of the neuroactive steroid minaxolone following chronic exposure.
MARSHALL, F. H., S. C. STRATTON, J. MULLINGS, E. FORD, S. P. WORTON, N. R. OAKLEY and R. M. HAGAN 1

D_1 and D_2 dopamine and opiate receptors are involved in the restraint stress-induced sensitization to the psychostimulant effects of amphetamine.
DÍAZ-OTAÑEZ, C. S., N. DEL ROSARIO CAPRILES and L. M. CANCELA 9

The relationship of oral chlorpyrifos effects on behavior, cholinesterase inhibition, and muscarinic receptor density in rat.
NOSTRANDT, A. C., S. PADILLA and V. C. MOSER 15

Cocaine reward and locomotor activity in C57BL/6J and 129/SvJ inbred mice and their F1 cross.
MINER, L. L. 25

Effects of chlorpromazine on rats' acquisition of lever-press responding with immediate and delayed reinforcement.
BYRNE, T., M. G. LESAGE and A. POLING 31

Effects of ibogaine on performance in the 8-arm radial maze.
HELSLEY, S., D. FIORELLA, R. A. RABIN and J. C. WINTER 37

Dietary modulation of mu and kappa opioid receptor-mediated analgesia.
KANAREK, R. B., J. PRZYPEK, K. E. D'ANCI and R. MARKS-KAUFMAN 43

Fluoxetine reduces saccharin-induced elevation of fluid intake in alcohol-preferring fawn-hooded rats.
KAMPOV-POLEVOY, A. B. and A. H. REZVANI 51

The alpha-1 adrenergic agonist, cirazoline, impairs spatial working memory performance in aged monkeys.
ARNSTEN, A. F. T. and J. D. JENTSCH 55

Tolerance to the anticonflict effects of diazepam: Importance of methodological considerations.
SMITH, R. L. and R. J. BARRETT 61

The effect of cumulative dosing on the analgesic potency of morphine in mice.
DUTTAROY, A., R. KIRTMAN, F. FARRELL, M. PHILLIPS, J. PHILIPPE, T. MONDERSON and B. C. YOBURN 67

Changes in rat spleen cannabinoid receptors after chronic CP-55,940: An autoradiographic study.
MASSI, P., G. PATRINI, T. RUBINO, D. FUZIO and D. PAROLARO 73

Effects of opioids on the absorption of alcohol.
LINSEMAN, M. A. and A. D. LÊ 79

Marmoset conspecific confrontation: An ethologically-based model of anxiety.
CILIA, J. and D. C. PIPER 85

Comparative effects of alcohol and marijuana on mood, memory, and performance.
HEISHMAN, S. J., K. ARASTEH and M. L. STITZER 93

Dopaminergic and cholinergic interaction in cataleptic responses in mice.
USHIJIMA, I., M. KAWANO, H. KANEYUKI, M. SUETSUGI, K. USAMI, H. HIRANO, Y. MIZUKI and M. YAMADA 103

α2-adrenoceptor agonists and stress-induced analgesia in rats: Influence of stressors and methods of analysis.
DE KOCK, M. and T. F. MEERT 109

GABAergic drugs inhibit amphetamine-induced distractibility in the rat.
ÅGMO, A., A. MEDRANO, N. GARRIDO and P. ALONSO 119

The conditioned eyeblink response: A role for the GABA-B receptor?
RAMIREZ, O. A., A. F. NORDHOLM, D. GELLERMAN, J. K. THOMPSON and R. F. THOMPSON 127

Dosage choices of rats for morphine, for heroin, and between morphine and heroin.
HUTTO, C. W., JR. and W. F. CROWDER 133

Hyperactivity induced by prenatal nicotine exposure is associated with an increase in cortical nicotinic receptors.
TIZABI, Y., E. J. POPKE, M. A. RAHMAN, S. M. NESPOR and N. E. GRUNBERG 141

The analgesia-enhancing component of ingested amniotic fluid does not affect nicotine-induced antinociception in naltrexone-treated rats.
ROBINSON-VANDERWERF, T. M., J. M. DI PIRRO, A. R. CAGGIULA and M. B. KRISTAL 147

Interaction of morphine and haloperidol on agonistic and motor behaviors of male mice.
RODRÍGUEZ-ARIAS, M., J. MIÑARRO and V. M. SIMÓN 153

The behavioral effects of NMDA antagonists in serotonin depleted rats.
PŁAŹNIK, A., M. JESSA and M. NAZAR 159

Kainate microinjection into the dorsal raphe nucleus induces 5-HT release in the amygdala and periaqueductal gray.
VIANA, M. B., F. G. GRAEFF and P.-A. LÖSCHMANN 167

Effects of caerulein and CCK antagonists on tolerance induced to morphine antinociception in mice.
ZARRINDAST, M.-R., A. ZABIHI, M. REZAYAT, H. RAKHSHANDEH, M. GHAZI-KHANSARI and R. HOSSEINI 173

Biphasic emetic response of cyclophosphamide in the ferret.
WONG, R. H., L. LAO, B. M. BERMAN, A. K. CARTER and R. L. WYNN 179

Bromocriptine enhances feeding behavior without changing dopamine metabolism.
INOUE, K., N. KIRIIKE, M. KURIOKA, Y. FUJISAKI, S. IWASAKI and S. YAMAGAMI 183

Influence of continuous levels of fentanyl in rats on the μ-opioid receptor in the central nervous system.
ALBRECHT, E. , N. HEINRICH, D. LORENZ, I. BAEGER, N. SAMOVILOVA, K. FECHNER and H. BERGER 189

Chronic ethanol ingestion-induced changes in open-field behavior and oxidative stress in the rat.
HARKANY, T., M. SASVARI and C. NYAKAS 195

Effects of brief caffeinated-beverage deprivation on mood, symptoms, and psychomotor performance.
LANE, J. D. 203

Effect of combinations of insulin, glucose and scopolamine on radial arm maze performance.
BLANCHARD, J. G. and P. M. DUNCAN 209

Active immunization with cocaine-protein conjugate attenuates cocaine effects.
ETTINGER, R. H., W. F. ETTINGER and W. E. HARLESS 215

Dorsal raphe and substantia nigra response to flumazenil in diazepam-dependent rats.
WALA, E. P., J. W. SLOAN and X. JING 221

Behavioral and autonomic thermoregulation in the rat following propylthiouracil-induced hypothyroidism.
GORDON, C. J. 231

Isobolographic analysis of the interaction between epidural sufentanil and bupivacaine in rats.
VERCAUTEREN, M. and T. F. MEERT 237

Perinatal exposure to morphine disrupts brain norepinephrine, ovarian cyclicity, and sexual receptivity in rats.
SIDDIQUI, A., S. HAQ and B. H. SHAH 243

NMDA but Not AMPA receptor antagonists impair the delay-interposed radial maze performance of rats.
LI, H.-B., K. MATSUMOTO, M. YAMAMOTO and H. WATANABE 249

Acute and subchronic effects of tiapride on isolation-induced aggression in male mice.
NAVARRO, J. F. and J. M. MANZANEQUE 255

NMDA receptor complex blockade by oral administration of magnesium: Comparison with MK-801.
DECOLLOGNE, S., A. TOMAS, C. LECERF, E. ADAMOWICZ and M. SEMAN 261

Changes in tonic immobility and the GABA–benzodiazepine system response to handling in the chick.
FLUCK, E., S. HOGG, R. B. JONES, R. BOURNE and S. E. FILE 269

Involvement of opioid μ1 receptors in morphine-induced conditioned place preference in rats.
PIEPPONEN, T. P., T. KIVASTIK, J. KATAJAMÄKI, A. ZHARKOVSKY and L. AHTEE 275

Anticonvulsant activity of azirino [1,2-*d*] [1,4]benzodiazepines and related 1,4-benzodiazepines in mice.
DE SARRO, G., A. CHIMIRRI, R. MCKERNAN, K. QUIRK, P. GIUSTI and A. DE SARRO 281

CONTENTS VOLUME 58 NUMBER 2 1997

Articles

GABAergic drugs and socio-sexual behavior.
PAREDES, R. G., P. KARAM, L. HIGHLAND and A. AGMO 291

Interactions between darodipine or isradipine and the 5-HT_1A receptor agonist 8-OHDPAT in rat brain.
GAGGI, R., R. D'ALLOLIO, M. SANTANGELO and P. RONCADA 299

State dependency of conditioning and extinction of an appetitive response with amphetamine and midazolam.
MAES, J. H. R. and J. M. H. VOSSEN 305

Buspirone fails to affect cocaine-induced conditioned place preference in the mouse.
ALI, I. and M. E. KELLY 311

Inhibition of grooming by pilocarpine differs in high- and low-yawning sublines of Sprague–Dawley rats.
EGUIBAR, J. R. and A. MOYAHO 317

Impact of d-amphetamine on temporal estimation in pigeons tested with a production procedure.
KRAEMER, P. J., C. K. RANDALL, J. M. DOSE and R. W. BROWN 323

Central administration of IL-1 reduces anxiety and induces sickness behaviour in rats.
MONTKOWSKI, A., R. LANDGRAF, A. YASSOURIDIS, F. HOLSBOER and B. SCHÖBITZ 329

Prenatal buprenorphine exposure and sexually dimorphic nonreproductive behaviors in rats.
BARRON, S. and V. M. CHUNG 337

Prenatal exposure to morphine feminizes male sexual behavior in the adult rat.
GAGIN, R., E. COHEN and Y. SHAVIT 345

Effects of serotonin 1A or 1B receptor agonists on social aggression in male and female Syrian hamsters.
JOPPA, M. A., R. K. ROWE and R. L. MEISEL 349

Behavioural and neurochemical effects of dizocilpine in the olfactory bulbectomized rat model of depression.
REDMOND, A. M., J. P. KELLY and B. E. LEONARD 355

Nonhippocampal muscarinic receptors are required for nonspatial working memory.
WAN, R.-Q., K. PANG and D. S. OLTON 361

Effects of nisoxetine, a selective noradrenaline transporter blocker, on sleep in rats.
PYTHON, A., Y. CHARNAY, R. MIKOLAJEWSKI, H. MERICA and Z. DE SAINT HILAIRE 369

Effect of psychological stress on [^{35}S]TBPS binding in rat brain.
FODDI, M. C., M. CINQUANTA and T. MENNINI 373

Role of cerebral dopamine and noradrenaline in the morphine-induced locomotor sensitisation in mice.
AIRIO, N. and L. AHTEE 379

Effect of prenatal stress on opioid component of exploration in different experimental situations.
POLTYREV, T. and M. WEINSTOCK 387

Circadian temperature and activity rhythms in unmedicated narcoleptic patients.
MAYER, G., F. HELLMANN, E. LEONHARD and K. MEIER-EWERT 395

Effects of dopamine agonists on appetitive and consummatory male sexual behavior in Japanese quail.
CASTAGNA, C., G. F. BALL and J. BALTHAZART 403

Effects of methylphenidate on oxytocin and vasopressin levels in pinealectomized rats during light-dark cycle.
APPENRODT, E., E. BOJANOWSKA, J. JANUS, B. STEMPNIAK, J. W. GUZEK and H. SCHWARZBERG 415

Cocaine and benzoylecgonine in serum microsamples of intact and gonadectomized male and female Wistar rats.
VAN HAAREN, F., M. GARCEA, K. G. ANDERSON and I. R. TEBBETT 421

Serotonin agonist-induced decreases in intermale aggression are dependent on brain region and receptor subtype.
COLOGER-CLIFFORD, A., N. G. SIMON, S.-F. LU and S. A. SMOLUK 425

Rotational bias in intact rats following intrastriatal injections of dopaminergic drugs.
SMITH, I. D., M. A. SUTTON and R. J. BENINGER 431

Motor lateralization, behavioral despair and dopaminergic brain asymmetry after prenatal stress.
ALONSO, S. J., E. NAVARRO, C. SANTANA and M. RODRIGUEZ 443

Scopolamine impairs spatial working memory in the radial maze: An analysis by error type and arm choice.
PILCHER, J. J., G. R. SESSIONS and S. A. McBRIDE 449

Both ethanol toxicity and thiamine deficiency are necessary to produce long-term memory deficits in the young chick.
CROWE, S. F. and S. KEMPTON 461

Effects of the co-administration of 5-HT_{1A} receptor antagonists with an SSRI in conditioned fear stress-induced freezing behavior.
HASHIMOTO, S., T. INOUE and T. KOYAMA 471

D_1 agonist dihydrexidine releases acetylcholine and improves cognitive performance in rats.
STEELE, T. D., D. B. HODGES, JR., T. R. LEVESQUE and K. W. LOCKE 477

7-OH-DPAT has *d*-amphetamine-like discriminative stimulus properties.
BEVINS, R. A., J. E. KLEBAUR and M. T. BARDO 485

NMDA receptor antagonist MK-801 selectively impairs learning of the contiguity of the conditioned stimulus and unconditioned stimulus in goldfish.
XU, X. 491

Alcohol intake of P rats is regulated by muscarinic receptors in the pedunculopontine nucleus and VTA.
KATNER, S. N., W. J. McBRIDE, L. LUMENG, T.-K. LI and J. M. MURPHY 497

Time course analysis of the discriminative stimulus effects of the optical isomers of 3,4-methylenedioxymethamphetamine (MDMA).
BAKER, L. E., T. B. VIRDEN, M. E. MILLER and C. L. SULLIVAN 505

Effect of methamphetamine and dopamine receptor antagonists on cholecystokininlike immunoreactivity in the rat medial prefrontral cortex.
KAWAI, N., Y. TAKAMATSU, H. YAMAMOTO, E. HASEGAWA, A. BABA, T. SUZUKI, T. MOROJI and O. O. OGUNREM 517

Prenatal morphine enhances morphine-conditioned place preference in adult rats.
GAGIN, R., N. KOOK, E. COHEN and Y. SHAVIT 525

Neuronal responses to systemic nicotine in the solitary tract nucleus: Origin and possible relation with nutritional effects of nicotine.
YETTEFTI, K., J. C. ORSINI and J. PERRIN 529

The effects of prenatally administered endogenous cannabinoid on rat offspring.
WENGER, T., G. FRAGKAKIS, P. GIANNIKOU and N. YIANNIKAKIS 537

Salsolinol and norsalsolinol in human urine samples.
MUSSHOFF, F., T. DALDRUP, W. BONTE, A. LEITNER and O. M. LESCH 545

Psychopharmacological distinction between novel full-efficacy "D_1-like" dopamine receptor agonists.
DEVENEY, A. M. and J. L. WADDINGTON 551

Hypothermic effects of neuropeptide FF analogues in mice.
DESPRAT, C. and J.-M. ZAJAC 559

Mixed D_2/5-HT_2 antagonism differentially affects apomorphine- and amphetamine- induced stereotyped behavior.
FELDMAN, D. J., R. A. FRANK, J. H. KEHNE, R. FLANNERY, D. BROWN, S. SONI, G. BYRD and S. SHAH 565

Effects of diazepam and buspirone on the behaviour of wild voles (*Microtus socialis*) in two models of anxiety.
HENDRIE, C. A., D. EILAM and S. M. WEISS 573

Involvement of septal muscarinic receptors in cholinergically mediated changes in rat rearing activity.
MONMAUR, P., A. SHARIF and M. M'HARZI 577

Influence of 5-HT_{1A} receptor antagonism on plus-maze behaviour in mice. I. Pindolol enantiomers and pindobind 5-HT_{1A}.
CAO, B.-J. and R. J. RODGERS 583

Influence of 5-HT_{1A} receptor antagonism on plus-maze behaviour in mice. II. WAY 100635, SDZ 216-525 and NAN-190.
CAO, B.-J. and R. J. RODGERS 593

Activities of monoamine oxidase (MAO) A and B in discrete regions of rat brain after rapid eye movement (REM) sleep deprivation.
PEREZ, N. M. and M. A. C. BENEDITO 605

The novel anxiolytic U-101017: In vitro and ex vivo binding profile and effect on cerebellar cGMP.
SETHY, V. H., and H. WU 609

Attenuation of alcohol consumption by a novel nontoxic ibogaine analogue (18-methoxycoronaridine) in alcohol-preferring rats.
REZVANI, A. H., D. H. OVERSTREET, Y. YANG, I. M. MAISONNEUVE, U. K. BANDARAGE, M. E. KUEHNE and S. D. GLICK 615

CONTENTS VOLUME 58 NUMBER 3 1997

Articles

Hibernation-induction trigger. I. Opioid-like effects of prairie dog plasma albumin on induced contractility of guinea pig ileum.
BRUCE, D. S., E. C. BAILEY, S. K. CRANE, P. R. OELTGEN, N. D. HORTON and H. J. HARLOW 621

Hibernation-induction trigger. II. *In vitro* effects of prairie dog plasma albumin on mouse vas deferens contractility.
BRUCE, D. S., D. E. COX, S. K. CRANE, M. L. DENHOLM, R. J. DHYANCHAND, M. J. HAMPL, J. A. KARY, A. S. KROBER, P. R. OELTGEN, N. D. HORTON and H. J. HARLOW 627

Bilateral hypothalamic dopamine infusion in male Zucker rat suppresses feeding due to reduced meal size.
YANG, Z.-J., M. M. MEGUID, J.-K. CHAI, C. CHEN and A. OLER 631

Ketanserin and anxiety levels: influence of gender, estrous cycle, ovariectomy and ovarian hormones in female rats.
DÍAZ-VÉLIZ, G., T. ALARCÓN, C. ESPINOZA, N. DUSSAUBAT and S. MORA 637

Behavioral alterations in male golden hamsters exposed to chlorodibromomethane.
KORZ, V. and R. GATTERMANN 643

Behavioral and neurochemical effects induced by subchronic *l*-deprenyl administration.
MOLINENGO, L. and P. GHI 649

Reduction of dizocilpine and scopolamine-induced deficits in avoidance responding by SCH 54388, a metabolite of felbamate.
SMITH, R. D., M. E. GRZELAK and V. L. COFFIN 657

Behavioral effects of trichloroethylene and tetrachloroethylene in mice.
UMEZU, T., J. YONEMOTO, Y. SOMA and T. MIURA 665

Decreased intake of a liquid diet in nonfood-deprived rats following intra-PVN injections of GLP-1 (7–36) amide.
McMAHON, L. R. and P. J. WELLMAN 673

A sucrose-based maintenance diet increases sensitivity to appetite suppressant effects of naloxone.
RUDSKI, J. M., C. J. BILLINGTON and A. S. LEVINE 679

Effects of diet on sensitization to cocaine-induced stereotypy in female rats.
SHUMSKY, J. S., P. L. SHULTZ, J. TONKISS and J. R. GALLER 683

Cysteamine blocks amphetamine-induced deficits in sensorimotor gating.
FEIFEL D. and K. L. MINOR 689

Nicotine abstinence syndrome precipitated by central but not peripheral hexamethonium.
MALIN, D. H., J. R. LAKE, C. K. SCHOPEN, J. W. KIRK, E. E. SAILER, B. A. LAWLESS, T. P. UPCHURCH, M. SHENOI and N. RAJAN 695

Effects of salicylate on 3,4-methylenedioxymethamphetamine (MDMA)-induced neurotoxicity in rats.
YEH, S. Y. 701

The antiseizure efficacies of MK-801, phencyclidine, ketamine, and memantine are altered selectively by stress.
DEUTSCH, S. I., J. MASTROPAOLO, R. L. RIGGS and R. B. ROSSE 709

Effects of neonatal exposure to nicotine on electrophysiological parameters in adult rats.
EHLERS, C. L., C. SOMES, J. THOMAS and E. P. RILEY 713

Absorption and subjective effects of caffeine from coffee, cola and capsules.
LIGUORI, A., J. R. HUGHES and J. A. GRASS 721

Drug disruption of short-term memory in *Drosophila melanogaster*.
XIA, S., L. LIU, C. FENG and A. GUO 727

Anxiogenic behavior in the light–dark paradigm following intraventricular administration of cholecystokinin-8S, restraint stress, or uncontrollable footshock in the CD-1 mouse.
MacNEIL, G., Y. SELA, J. McINTOSH and R. M. ZACHARKO 737

Anxiolytic Action of a Neurokinin$_1$ Receptor Antagonists in the Social Interaction Test.
FILE, S. E. 747

L-NNA decreases cortical vascularization, alcohol preference and withdrawal in alcoholic rats.
LALLEMAND, F., and PH. DE WITTE 753

Differences between two substrains of AB mice in the opioid system.
BECKER, A., H. SCHRÖDER, M. BROSZ, G. GRECKSCH and R. SCHNEIDER-STOCK 763

Fluoxetine decreases fat and protein intakes but not carbohydrate intake in male rats.
HEISLER, L. K., R. B. KANAREK and A. GERSTEIN 767

Effect of aversive stimulation on 5-hydroxytryptamine and dopamine metabolism in the rat brain.
GE, J., N. M. BARNES, B. COSTALL and R. J. NAYLOR 775

Serum estradiol levels and ethanol-induced aggression.
HILAKIVI-CLARKE, L., M. RAYGADA and E. CHO 785

Chronic cocaine exposure affects stimulus-induced but not spontaneous behavior of the near-term mouse fetus.
COPPOLA, D. M., L. C. MILLAR, C.-J. CHEN and J. G. VANDENBERGH 793

Pimozide does not shift palatability: Separation of anhedonia from sensorimotor suppression by taste reactivity.
PECIÑA, S., K. C. BERRIDGE and L. A. PARKER 801

Pharmacological characterization of the discriminative stimulus effects of clenbuterol in rats.
O'DONNELL, J. M. 813

Dopamine infusion does not alter LH levels before or after chronic cocaine exposure in female rhesus monkeys.
MELLO, N. K., J. H. MENDELSON, M. KELLY, N. DIAZ-MIGOYO and J. W. SHOLAR 819

CONTENTS VOLUME 58 NUMBER 4 1997

Articles

Effects of dopaminergic agents on reversal of reserpine-induced impairment in conditioned avoidance response in rats.
NAKAGAWA, T., K. UKAI, T. OHYAMA, Y. GOMITA and H. OKAMURA 829

Differential effects of β-endorphin and met- and leu-enkephalin on steroid hormone-induced lordosis in ovariectomized female rats.
TORII, M., K. KUBO and T. SASAKI 837

Prenatal exposure to nicotine: Effects on prepulse inhibition and central nicotinic receptors.
POPKE, E. J., Y. TIZABI, M. A. RAHMAN, S. M. NESPOR and N. E. GRUNBERG 843

Motor dysfunction produced by tacrine administration in rats.
CARRIERO, D. L., G. OUTSLAY, A. J. MAYORGA, J. ABERMAN, G. GIANUTSOS and J. D. SALAMONE 851

Modulation of the behavioral effects of 8-OH-DPAT by estrogen and DOI.
MASWOOD, N. and L. UPHOUSE 859

Postnatal pup brain dopamine depletion inhibits maternal behavior.
WILKINS, A. S., M. LOGAN and P. KEHOE 867

Clonazepam prevents the development of sensitization to methamphetamine.
ITO, K., T. OHMORI, T. ABEKAWA and T. KOYAMA 875

Differential effects of immunologic challenge on self-stimulation from the nucleus accumbens and the substantia nigra.
ZACHARKO, R. M., S. ZALCMAN, G. MACNEIL, M. ANDREWS, P. D. MENDELLA, and H. ANISMAN 881

Anxiolytic natural and synthetic flavonoid ligands of the central benzodiazepine receptor have no effect on memory tasks in rats.
SALGUEIRO, J. B., P. ARDENGHI, M. DIAS, M. B. C. FERREIRA, I. IZQUIERDO and J. H. MEDINA 887

Effects of microinjections of cholecystokinin and neurotensin into lateral hypothalamus and ventral mesencephalon on intracranial self-stimulation.
SINGH, J., T. DESIRAJU and T. R. RAJU 893

Chronic haloperidol administration does not block acute nicotine-induced improvements in radial-arm maze performance in the rat.
LEVIN, E. D. 899

The role of striatal glutamatergic system in haloperidol-induced dopamine receptor supersensitivity and effects of monosialoganglioside GM1.
SCHROEDER, H., U. SCHROEDER and B. A. SABEL 903

Effects of physostigmine on the startle in guinea pigs: Two mechanisms involved.
PHILIPPENS, I. H. C. H. M., B. OLIVIER and B. P. C. MELCHERS 909

Effect of diazepam and a β-carboline on open-field and T-maze behaviors in 2-day-old chicks.
MARÍN, R. H., I. D. MARTIJENA and A. ARCE 915

THIP, a selective gamma-aminobutyric acid receptor agonist, alters flash-evoked potentials in rats.
HETZLER, B. E. and H. L. ZEISSET 923

Differential behavioral responses to dopaminergic stimulation of nucleus accumbens subregions in the rat.
SWANSON, C. J., S. HEATH, T. R. STRATFORD and A. E. KELLEY 933

The common marmoset (*Callithrix jacchus*) as a model for neuroleptic-induced acute dystonia.
FUKUOKA, T., M. NAKANO, A. KOHDA, Y. OKUNO and M. MATSUO 947

Temporal and environmental effects on quinpirole-induced biphasic locomotion in rats.
VAN HARTESVELDT, C. 955

Forced swim test-induced neurochemical, endocrine, and immune changes in the rat.
CONNOR, T. J., J. P. KELLY and B. E. LEONARD 961

Discriminative stimulus properties of ethanol in the rat: Differential effects of selective and nonselective benzodiazepine receptor agonists.
BIENKOWSKI, P., K. IWINSKA, R. STEFANSKI and W. KOSTOWSKI 969

The effects of naloxone on expression and acquisition of ethanol place conditioning in rats.
BORMANN, N. M. and C. L. CUNNINGHAM 975

Secobarbital in humans discriminating triazolam under two-response and novel-response procedures.
KAMIEN, J. B., W. K. BICKEL, B. J. SMITH, G. J. BADGER and J. R. HUGHES 983

Spontaneous epileptiform seizures but increased resistance to kindled seizures in a mutant Sprague-Dawley rat (*mf/mf*).
HERBERG L. J., I. C. ROSE, F. DAVISON, M. THOM, A. BECKETT and F. SCARAVILLI 993

Conditioned sucrose aversions produced by naloxone-precipitated withdrawal from acutely administered morphine.
MCDONALD, R. V., L. A. PARKER and S. SIEGEL 1003

Cocaine impairs maternal nest building in pregnant rats.
QUIÑONES-JENAB, V., P. BATEL, S. D. SCHLUSSMAN, A. HO and M. J. KREEK 1009

Amphetamine-induced locomotor sterotypy in rats is reduced by a D_1 but not a D_2 antagonist.
FRITTS, M. E., K. MUELLER and L. MORRIS 1015

Adenlyl cyclase signal transduction and alcohol-induced sedation.
FROEHLICH, J. C. and G. S. WAND 1021

Rats reared in social isolation show schizophrenia-like changes in auditory gating.
STEVENS, K. E., R. G. JOHNSON and G. M. ROSE 1031

The effects of chloriazepoxide on low-rate behavior are gender dependent.
VAN HAAREN, F., E. KATON and K. G. ANDERSON 1037

Rapid recovery of self-stimulation from depression produced by the atypical neuroleptic risperidone is not prevented by 5-HT_2 receptor stimulation.
GROTTICK, A. J., A. M. J. MONTGOMERY and L. J. HERBERG 1045

Role of 5-HT_{2A} and 5-HT_{2C} receptor subtypes in the two types of fear generated by the elevated T-maze.
MORA, P. O., C. FERREIRA NETTO and F. G. GRAEFF 1051

Chronic administration of NMDA glycine partial agonists induces tolerance in the Porsolt swim test.
LOPES, T., P. NEUBAUER and K. M. K. BOJE 1059

Intranucleus accumbens amphetamine infusions enhance responding maintained by a stimulus complex paired with oral ethanol self-administration.
SLAWECKI, C. J., H. H. SAMSON and A. CHAPPELL 1065

Opioid receptor blockade during prenatal life modifies postnatal behavioral development.
McLAUGHLIN, P. J., S. W. TOBIAS, C. M. LANG and I. S. ZAGON 1075

(−)-Nornicotine partially substitutes for (+)-amphetamine in a drug discrimination paradigm of rats.
BARDO, M. T., R. A. BEVINS, J. E. KLEBAUR, P. A. CROOKS and L. P. DWOSKIN 1083

Effects of acute and long-term domperidone treatment on prolactin and gonadal hormone levels and sexual behavior of male and female rats.
NASELLO, A. G., M. L. A. VANZELER, E. H. MADUREIRA and L. F. FELICIO 1089

Stereotyped behavior: Effects of *d*-amphetamine and methylphenidate in the young rat.
ROFFMAN, J. L. and L. A. RASKIN 1095

Combined naloxone and fluoxetine on deprivation-induced binge eating of palatable foods in rats.
HAGAN, M. M., F. D. HOLGUIN, C. E. CABELLO, D. R. HANSCOM, and D. E. MOSS 1103

Cathinone: An investigation of several *n*-alkyl and methylenedioxy-substitued analogs.
DAL CASON, T. A., R. YOUNG and R. A. GLENNON 1109

Isradipine blocks cocaine's ability to facilitate pressing for intracranial stimulation.
GONZALES, P. M., K. J. BOSWELL, C. L. HUBBELL and L. D. REID 1117

Dietary docosahexaenoic acid increases cerebral acetylcholine levels and improves passive avoidance performance in stroke-prone spontaneously hypertensive rats.
MINAMI, M., S. KIMURA, T. ENDO, N. HAMAUE, M. HIRAFUJI, H. TOGASHI, M. MATSUMOTO, M. YOSHIOKA, H. SAITO, S. WATANABE, T. KOBAYASHI and H. OKUYAMA 1123

Influence of prior experience on mice behavior using the four-plate test.
HASCOET, M., M. BOURIN and A. COUETOUX DU TERTRE 1131

Evaluation of cannabimimetic discriminative stimulus effects of anandamide and methylated fluoroanandamide in Rhesus monkeys.
WILEY, J. L., K. M. GOLDEN, W. J. RYAN, R. L. BALSTER, R. K. RAZDAN and B. R. MARTIN 1139

Effects of varying marijuana potency on deposition of tar and Δ^9-THC in the lung during smoking.
MATTHIAS, P., D. P. TASHKIN, J. A. MARQUES-MAGALLANES, J. N. WILKINS and M. S. SIMMONS 1145

Effects of dorsal noradrenergic bundle lesions on recovery after sensorimotor cortex injury.
GOLDSTEIN, L. B. and S. BULLMAN 1151

Interactions of ethanol with nicotine, dizocilpine, CGP 40116, and 1-(m-Chlorophenyl)-biguanide in rats.
BIENKOWSKI, P., E. KOROS, J. PIASECKI and W. KOSTOWSKI 1159

CCK-8S facilitates 5-HT release in the rat hypothalamus.
VOIGT, J.-P., R. SOHR and H. FINK 1167

Index to Volume 58 I